

LAVENDER CREEK TMDL IMPLEMENTATION PLAN

NARRATIVE PLAN

Lavender Creek was listed on Georgia's 303 (d) due to a sample collected 10-28-92 by an employee of JEM Laboratories in Rome, Georgia. JEM Laboratories was under contract to collect monthly samples for Oglethorpe Power during construction of the Rock Mountain Power Plant. Fecal coliform in the sample was measured at 9,200 cfu/100 ml which exceeds the one-time standard of 4,000 cfu/100 ml. The sample was collected near Boggs Lake, which is accessible on Sand Springs Road near the headwaters of Lavender Creek. Of 77 samples collected over a sixteen-year period, this was the only sample to exceed the one-time standard; however, the standard for the 30-day geometric mean may have been exceeded if samples had been collected to substantiate it.

Personnel from Coosa Valley Regional Development Center led the effort to develop this TMDL implementation plan in cooperation with employees of Rome and Floyd County. Following a preplanning session on January 17, 2001, a public meeting was held on January 30, 2001 at the Armuchee Elementary School library. The school is one of the closest public facilities to the Lavender Creek watershed. Forty-five people registered for the meeting including representatives of local, state, and federal government, landowners, livestock operators, homeowners, Coosa River Basin Initiative, and news media. The meeting involved information dissemination and information gathering.

After viewing the film "Watershed Wisdom: Georgia's TMDL Program" and a Powerpoint presentation on TMDL's in the U.S., Georgia, and Lavender Creek, attendees participated in a brainstorming session. The session revolved around two questions. What things should be done to stop or reduce fecal coliform pollution? How should the plan be implemented? After collecting and summarizing ideas the participants ranked them in terms of importance. Using a dot method, each participant had ten "votes". A red dot equaled four votes, blue equaled three, green equaled two, and yellow equaled one.

The most important item was to get a monitoring program in place. Second in importance was a "how to" item stating that monitoring should happen first, then voluntary measures, then regulatory measures. Installation and maintenance of stream buffers ranked third. The fourth ranked item was identify and quantify land use, followed by stricter enforcement of existing regulations, assuring water sampling accuracy, clearing debris and beaver dams and regulation consistency throughout government, and others (see attached).

A second meeting was held at Armuchee Elementary School on February 12, 2001 to review a final draft of the plan. About 31 people attended. Following a presentation on BMP's for agriculture, forestry, and residential land uses, the final draft TMDL

Implementation Plan was reviewed. A lot of discussion ensued, but no recommendations for changes in the plan resulted.

Given the professional opinions of the planners involved, the input of other professionals, and input of landowners in the watershed and other members of the public, we are recommending a step-wise approach. The first component of this approach is a monitoring program (see attached Monitoring Plan). The second component is increased activity from Natural Resources Conservation Service (NRCS) and Cooperative Extension Service (CES) in the agriculture sector emphasizing voluntary installation of BMP's such as stream buffers, particularly through the use of cost-share programs. The third component is increased educational activity from CES in regard to maintenance of septic systems, and from the Environmental Health Department in educating the public on current regulations for septic systems.

It is hoped that the resulting voluntary compliance will result in fecal coliform counts low enough to de-list Lavender Creek. If voluntary compliance is not sufficient, then the second phase will be regulatory with mandatory stream buffers and stringent enforcement of the septic tank code. This phase will also involve working cooperatively with Berry College and DNR-Wildlife Resources Division to reduce wildlife numbers on the Berry College WMA.

STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN FOR: Lavender Creek
(STREAM)Fecal Coliform
(PARAMETER)RIVER BASIN: Coosa
PLAN DATE: March 2, 2001

Prepared by: <u>Coosa Valley</u> Regional Development Center Address: <u>P.O. Box 1793</u> City: <u>Rome</u> State: <u>Georgia</u> Zip: <u>30162</u> e-mail: <u>ghuber@cvrdc.org</u> Date Submitted to EPD: <u>March 2, 2001</u> THIS PLAN WAS UPDATED WITH 604(B) FUNDS IN 2003		Or Prepared By: Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ Date Submitted to EPD: _____	
General Information Obtain this information from the TMDL document or other information. When completed, this document will be a self-contained report independent of the TMDL document.		Significant Stakeholders Identify local governments, agricultural organizations or significant land holders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body.	
TMDL ID (to be entered by EPD)	CSA0000002	Name/Organization	Floyd County Commissioners
Water body name	Lavender Creek	Address	3 Government Plaza
HUC basin name	Coosa River	City	Rome
HUC number	03150103	State	GA
Primary county	Floyd County	Zip	30162
Secondary county		Phone	(706)291-5110
Primary RDC	Coosa Valley	e-mail	
Secondary RDC		Name/Organization	Floyd County Environmental Health Department
Water body location	From: Sand Springs Road To: Armuchee Creek	Address	315 West 10 th Street
Miles or area impacted	6771 Acres	City	Rome
Parameter addressed in plan	Fecal Coliform	State	GA
Water use classification	Fishing	Zip	30162
Degree of impairment	Partially supporting use x Not supporting use	Phone	(706)295-6316
Date TMDL approved by EPA		e-mail	
Impairment due to	Point sources Nonpoint sources x Both	Name/Organization	Floyd County Schools
		Address	600 Riverside Parkway
		City	Rome
		State	GA
		Zip	30161
		Phone	234-1031
		e-mail	astewart@floydboe.net
		Name/Organization	Oglethorpe Power Corporation
		Address	4050 Big Texas Valley Road
		City	Rome
		State	GA
		Zip	30165
		Phone	(706)290-5400
		e-mail	

If more, add to comments on last page.

FORM B

SUMMARY OF ALLOCATION MODEL RESULTS FROM TMDL DOCUMENT (existing load, target TMDL, and needed reduction)

EXISTING LOAD	TARGET TMDL	NEEDED REDUCTION
164 cfu/100ml	150 cfu/100ml	14 cfu/100ml

I. IDENTIFY **NONPOINT SOURCE** CATEGORIES AND SUBCATEGORIES OR INDIVIDUAL SOURCES WHICH MUST BE CONTROLLED TO IMPLEMENT LOAD ALLOCATIONS:

List major nonpoint sources contributing to impairment including those identified in TMDL document.

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Forest pervious	Nonpoint Berry College Wildlife Management Area (about 2,000 acres)	
Agricultural pervious	Nonpoint	10%
Urban-residential pervious	Nonpoint - failing septic tanks, wildlife, and pets	50%
Urban impervious	Nonpoint - storm water runoff	

II. DESCRIBE ANY REGULATORY OR VOLUNTARY ACTIONS INCLUDING MANAGEMENT MEASURES OR OTHER CONTROLS BY GOVERNMENTS OR INDIVIDUALS THAT SPECIFICALLY APPLY TO THE POLLUTANT AND THE WATERBODY FOR WHICH THE TMDL WAS WRITTEN, THAT WILL BE ACCOMPLISHED THROUGH RELIABLE AND EFFECTIVE DELIVERY MECHANISMS, AND THAT WILL HELP ACHIEVE THE LOAD ALLOCATIONS IN THE TMDL:

See the attachment for more instructions.

Existing or required regulatory actions

RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY	NAME OF REGULATION/ORDINANCE	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Floyd County	Rome/Floyd Unified Code	Buffer Ordinance	Dec-98	Enforced on new development
Floyd County Health Dept., EHD	Rules and regulations for on-site sewage mgt.	Septic System Code	Jan-98	Enforced, State regs. Adopted by the Board of Health
Floyd County	Protection of Natural Waters	Section 6.19.1 b (2) Buffers	March-01	Pending
Floyd County	Phase II: Stormwater Permit	Apply for permit and develop management program	10/03/03	EPD will notify

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Farm Services Agency	Conservation Reserve Program	Continuous sign-up for buffers	1985	Excellent program for ag producers
Natural Resources Conservation Service	Environmental Quality Incentives Program	State Priority Items	1997	Yearly sign-up for ag producers
Natural Resources Conservation Service	Wetland Reserve Program	On-going wetland restoration program	1985	Has not been useful in NW Georgia
Floyd County	Floyd County Green Space Program	Permanent easement purchase to preserve green space	Mar- 01	New program
Floyd County	Adopt-A-Stream	Stream Monitoring and clean-up		Not on Lavender Creek at this time
Georgia EPD/Coosa Valley RDC	Source Water Assessment Program	Inventory and risk assessment for water supply watersheds	Nov-03	In progress

Additional recommended regulatory or other measures which should be implemented to reduce the loads of the TMDL parameter

ENTITY/ORGANIZATION RESPONSIBLE	NAME OF PROPOSED REGULATION/ORDINANCE/ OTHER	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Floyd County	TMDL buffers	Special regulations for buffers along 303(d) listed streams	2006	If needed

III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS:

These must be implemented as expeditiously as practicable within five years of when the implementation plan is accepted by EPA.

IMPLEMENTATION ACTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group	X				
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X				
Identify sources of TMDL parameter	X				
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):	X				
Agriculture					
Forestry	X				
Urban	X				
Mining					
Organize and implement education and outreach programs	X				
Detect and eliminate illicit discharges	X				
Evaluate additional management controls needed	x	x	X		
Monitor and evaluate results	x	x	x	x	X
Reassess TMDL allocations			X		X
Provide periodic status reports on implementation of remedial activities	x	x	x	x	X
If needed, begin process for Phase II (next 5 years) and subsequent phases					X

IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

The projected attainment date is 10 years from acceptance of the implementation plan by EPA.

V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented 2
- Number of management controls and activities proposed in five-year work program 6
- Number of management controls and activities actually implemented in five-year work period _____(to be completed after 5 years)
- Stream sampled to identify areas of concern See monitoring plan
- Other _____
- Other _____

VI. MONITORING PLAN:

Monitoring data that placed stream on 303(d) list will be provided if requested.

Describe previous or current sampling activities or other surveys to detect sources or to measure effectiveness of management measures or other controls.

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
Floyd County Water Department	Bi-weekly	Fecal Coliform	Source locations, verification of status, and progress monitoring	begun
Rome Water Department			Analysis at Blacks Bluff	Begun

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Describe any planned or proposed sampling activities or other surveys. (Scheduled EPD sampling can be found in the Basin Planning document.)

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
EPD	2001-2002	Various	Basin planning	'01 collection

VII. CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE:

- % concentration or load change (monitoring program)
- Categorical change in classification of the stream (delisting the stream is the goal)
- Regulatory controls or activities installed (ordinances, laws)
- Best management practices installed (agricultural, forestry, urban)

COMMENTS

See attached additional stakeholders, Narrative Plan, and Monitoring Plan.

LAVENDER CREEK TMDL IMPLENTATION PLAN

MONITORING PLAN

Personnel from Floyd County Water Department will collect samples from 6 locations along Lavender Creek on a bi-weekly schedule. The samples will be analyzed at the City of Rome Water and Sewer Department laboratory at Blacks Bluff. Samples will be collected and analyzed using protocols from CFR 40 part 136 for fecal coliform.

Two samples will be collected each week rotating through the sample locations. So each location will be sampled every six weeks. Sample locations (map attached) have been located to best determine loads from differing land uses and to establish background levels for fecal coliform. Signs have been erected at the sample locations. The sites are numbered 1 through 5. Sample locations may be changed if sample data indicates that another location might yield more useful information.

The Environmental Planner for the Rome/Floyd Planning Department will maintain data from the collections. These data will be printed in the Roman Record of the Rome News-Tribune on a regular basis.